

Title (en)
METHOD AND APPARATUS FOR RECOVERING CHEMICAL COMPOUNDS FROM THE EFFLUENT STREAM OF A SUPERCRITICAL FLUID EXTRACTION

Title (de)
VERFAHREN UND VORRICHTUNG ZUM WIEDERGEWINNEN VON CHEMISCHEN VERBINDUNGEN AUS DEM AUSFLUSS EINER ÜBERKRITISCHEN FLÜSSIGKEITSEXTRAKTION

Title (fr)
PROCEDE ET DISPOSITIF DE RECUPERATION DE SUBSTANCES CHIMIQUES DE L' EFFLUENT D' UNE EXTRACTION DE FLUIDE SUPERCRITIQUE

Publication
EP 0551352 B1 19980826 (EN)

Application
EP 91917448 A 19910919

Priority
• US 9106700 W 19910919
• US 59161290 A 19901002

Abstract (en)
[origin: WO9206058A1] A system of recovering at least one low molecular weight chemical compound carried in the high pressure effluent fluid stream from supercritical fluid extraction. This effluent stream flows through a heated capillary conduit (52) preferably including a coiled segment in a heat conductive bloc (56). A flow restrictor in the conduit restricts flow and thereby slowly reduces pressure to exit a port (52d) into a region free of liquid in a decompression zone (70) thereby substantially decompressing said high pressure effluent fluid stream. Then the stream is passed into a liquid solvent zone (74) containing a liquid solvent for a low molecular weight chemical compound. Then, the low molecular weight chemical compound in said liquid solvent is trapped and detected. When the effluent fluid stream contains at least one high molecular weight compound, it is deposited on a surface in contact with said gas decompression zone, removed, and detected.

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